



## For More Information

For assistance with this grant program, contact the *MassCleanDiesel: Clean Markets Program* Coordinator at **617-292-5868**.

For more information on the eTRUs available through this program, visit the participating manufacturers' websites:

Thermo King:  
<http://www.thermokingnortheast.com/>

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[www.mass.gov/dep](http://www.mass.gov/dep)

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The Massachusetts Department of Environmental Protection is the state agency responsible for ensuring clean air and water, the safe management of toxics and hazards, the recycling of solid and hazardous wastes, the timely cleanup of hazardous waste sites and spills, and the preservation of wetlands and coastal resources.

Commonwealth of Massachusetts, Charles D. Baker, Governor

Executive Office of Energy and Environmental Affairs,  
Matthew A. Beaton, Secretary

Department of Environmental Protection,  
Martin Suuberg, Commissioner

## ***Massachusetts Diesel TRU Owners:***

## **Grants Available to Electrify Your Diesel Transportation Refrigeration Units**

***Help clean the air AND save  
money!***

## **MassCleanDiesel: Clean Markets Program**

## A Cleaner Future for Our Markets, Warehouses, and Distribution Centers

To help reduce air pollution at Massachusetts wholesale markets, warehouses, and distribution centers and their surrounding communities, the *MassCleanDiesel: Clean Markets Program* is funding 40% of the cost to replace diesel transportation refrigeration units (TRUs) with electric TRUs (eTRUs).

If you own a stand-alone, stationary truck trailer with a diesel TRU mounted on it that is operating at one of these markets, warehouses, or distribution centers, you may be eligible for this program.

### Which Trailers Are Eligible?

To receive an eTRU, the trailer on which the eTRU would be mounted must be:

- ✓ Detached
- ✓ Semi-stationary or stationary

Qualified applicants must provide an electricity supply to power the eTRU and own the eTRU and the trailer for three years after installation.

## What Are the Benefits of eTRUs?

### Fuel Savings

An eTRU will save you significant money—as much as \$2,000/month—by eliminating the need for diesel fuel. These savings will continue throughout the life of the eTRU and will help compensate for the 60% (on average \$10,800) co-pay for your new eTRU.

### Maintenance Savings

The savings don't stop with fuel. Because eTRUs don't have belts, oil or air filters, you—or a costly technician—don't have to change or maintain them every year. Cost savings can be up to \$1,000/year.

### Reduced Pollution

Diesel TRUs generally operate 24 hours a day, seven days a week. By using an eTRU, you will *eliminate* these harmful components of diesel exhaust:

- Carbon monoxide (CO), exposure to which can cause headaches and nausea;



### How does an eTRU work?

Electric TRUs are mounted on trailers just like diesel TRUs but do not contain a diesel engine. Thermostatically controlled with an in-cab control, eTRUs are plugged into a facility's power supply, usually a 230V three-phase system with 60HZ. The electric unit heats and cools the trailer according to the operator's specifications.

- Fine particulate matter (PM), a pollutant the U.S. Environmental Protection Agency (EPA) has identified as likely to cause cancer and premature death;
- Hydrocarbons (HCs), exposure to which is associated with bronchitis, chest tightness, and shortness of breath;
- Carbon dioxide (CO<sub>2</sub>), a greenhouse gas that traps heat and causes severe, unstable weather.

It is true that pollution is still created from generating the electricity to power the eTRU, as the electric grid is not yet powered entirely by non-emitting power. However, the emissions are much lower compared to the emissions from a diesel TRU.

Reducing diesel emissions will protect the health of truck operators, employees of the facilities you serve, and the residents of Massachusetts.